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(71) Applicant (for all designated States except US): PHB INDUSTRIAL S.A. [BR/BR]; Usina da Pedra, s/n, Bairro Zona Rural, 14150-000 SERRANA - SP (BR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): MANTELATTO,

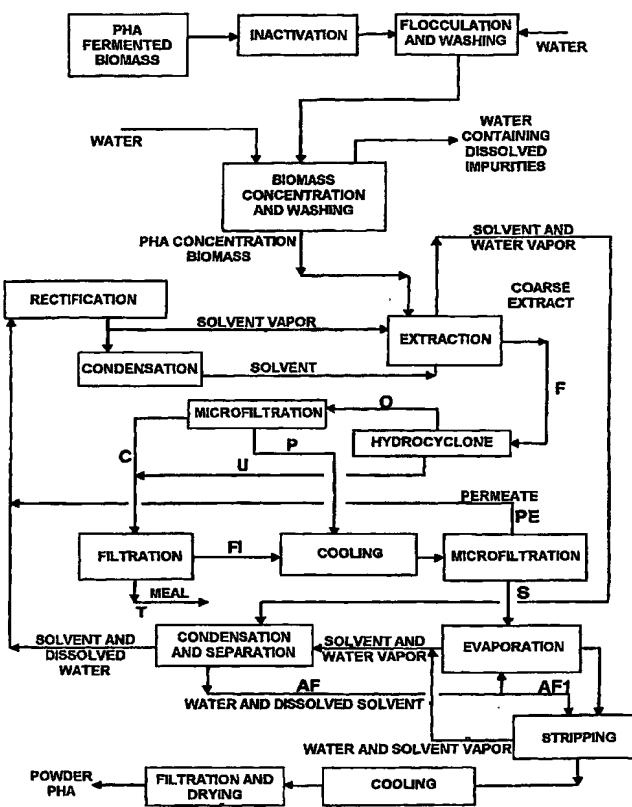
Paulo Eduardo [BR/BR]; Rua São João, 1.344 - Ap. 12, 13486-890 Piracicaba - SP (BR). DUZZI, Álvaro Minto [BR/BR]; Rua Vicente de Paula Lima, 382 -, Centro, 14150-000 Serrana - SP (BR). SATO, Tetuhiko [BR/BR]; Rua Professor Alexandre Correa, 321-, Ap. 51 - Morumbi, 05657-230 São Paulo - SP (BR). DURÃO, Nazareno Antônio Sertório [BR/BR]; Rua Floriano Peixoto, 615 -, Ap. 01 - Centro, 14340-000 Brodowski - SP (BR). NONATO, Roberto Vianna [BR/BR]; Rua coriolano, 982 - Ap. 122, 05047-000 São Paulo - SP (BR). ROC-CHICCIOLI, Carlo [BR/BR]; Alameda Ministro Rocha Azevedo, 545 - Ap. 81, 01410-001 São Paulo - SP (BR). KESSERLINGH, Sônia Maria [BR/BR]; Rua Matheus Benelli, 494 - Jardim Recreio dos Bandeirantes, 14171-115 Sertãozinho - SP (BR).

(74) Agents: ARNAUD, Antonio M.P. et al.; Rua José Bonifácio, 93 - 9th floor, 01003-901 São Paulo - SP (BR).

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(54) Title: PROCESS FOR RECOVERING POLYHYDROXIALKANOATES ("PHAS") FROM CELLULAR BIOMASS



(57) Abstract: A process for recovering polyhydroxylalkanoates (PHAs) from cellular biomass of bacteria, said biomass being obtained by fermentation and in the form of a cellular biomass slurry in aqueous suspension, comprising the steps of: submitting the slurry to operations of injection of PHA solvent, agitation and heating, in order to form a suspension comprising PHA solvent with the dissolved PHA, water and insoluble residues; recuperating the solvent enriched with PHA; rapidly cooling the solution of PHA solvent to precipitate the dissolved PHA; micro-filtrating the suspension of PHA precipitated in the solvent, in order to separate a paste concentrated with precipitated PHA; washing with water, heating and agitating the concentrated PHA paste, to promote evaporation of the solvent and to obtain a suspension containing PHA granules; agitating and shearing the PHA granules and depleting the residual solvent; and separating the purified PHA particles from the suspension.

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